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JPRS 1629-X

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FTD-TT-45-407

Chen Chia-L

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of Magnesium in Fertilizers, by Hsiao Chiao-ch'ang,  
Ch'ing Chai-hsing, et al. 7 pp.  
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JPRS 83731

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A Study of the Interaction of Diatoms and  
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Wang Shu-shan (7213 383), 12 pp.  
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JPRS 3438

Ch'en Ch'ih

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Mar 66

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[Chen, Chih-tsung, Tu, Tsung-ming, and  
Chen, Lin-tsung].  
[STUDIES ON THE GLUTAMIC ACID FERMENTA-  
TION]. I. EXAMINATION OF POWERFUL KIND OF  
BACTERIA. [1963] 9p. (tables omitted) 11 refs.  
Order from SLA \$1.10 63-16189

Trans. of [Hakko Kagaku Zasshi (Japan) 1959, v. 37,  
no. 8, p. 295-298].

DESCRIPTORS: \*Glutamic acid, \*Fermentation,  
Bacteria, Biosynthesis, \*Micrococcus, \*Culture media.

For the purpose of carrying out a basic study on the  
manufacture of glutamic acid, the authors collected the  
samples from a wide area of farms, paddy fields, and  
factories in Taiwan, and tried the isolation of powerful  
bacteria therefrom. From among 94 kinds obtained by  
the first screening, 16 kinds were selected as being  
(Biological Sciences--Microbiology, TT, v. 10, no. 11)  
(over)

63-16189

- I. Title: 1912 Bacteria
2. Title: Bacteria No. 1942
- I. Chen, Chih-tsung
- II. Tu, Tsung-ming
- III. Chen, Lin-tsung
- IV. Title: Examination...

A254920

Office of Technical Services

[Chen, Chih-tsung, Tu, Tsung-ming, and Chen,  
Lih-tsung].  
[STUDIES ON THE GLUTAMIC ACID FERMENTATION]. IX. ON THE ADJUSTMENT OF pH. [1963]  
Sp. (tables omitted) 5 refs.  
Order from SLA \$1.10

63-16197

Trans. of [Hakko Kagaku Zasshi (Japan) 1963, v. 37,  
no. 8, p. 315-318].

DESCRIPTORS: \*Glutamic acid, \*Fermentation,  
\*Culture media, Bacteria, Biosynthesis, Micrococci,  
Growth, \*Hydrogen ion concentration.

As a result of the test for the determination of the most  
suitable pH for the production of glutamic acid by  
bacteria No. 1942, it was observed that good results  
are obtained when pH is 7.0 at the time of the initiation  
of the culture when pH is constantly adjusted to remain  
(Biological Sciences--Microbiology, TT, v. 10, no. 11)  
(over)

63-16197

1. Title: 1942 Bacteria
2. Title: Bacteria 1942
1. Chen, Chih-tsung
- II. Tu, Tsung-ming
- III. Chen, Lih-tsung
- IV. Title: On ...

A554927

Office of Technical Services

[Chen, Chih-tsung and Chen, Lie-tsung].  
**STUDIES ON THE GLUTAMIC ACID FERMENTATION. II. COMPOSITION OF THE CULTURE MEDIUM. 1. ON THE SOURCE OF CARBON. [1943]**  
 7p. (Tables omitted) 3 refs.  
 Order from SLA \$1.10

68-16190

Trans. of [Hakko Kagaku Zasshi (Japan) 1939, v. 37, no. 2, p. 299-301].

**DESCRIPTORS:** \*Glutamic acid, \*Fermentation, \*Culture media, \*Micrococci, Carbon, Bacteria, Glucose, \*Micrococci.

As a result of the examination concerning the applicability of several carbon sources on bacteria No. 1942, it was discovered that glucose and sucrose are good. As the glucose sources, either the hydrochloric acid or sulfuric acid, saccharified solutions of cane syrup (Biological Sciences--Microbiology, TT, v. 10, no. 11) (over)

68-16190

1. Title: 1942 Bacteria
2. Title: Bacteria No. 1942
1. Chen, Chih-tsung
- II. Chen, Lie-tsung
- III. Title: Composition...
- IV. Title: On...

A654921

Office of Technical Services

[Chen, Chia-tung and Tu, Tung-ming]  
**STUDIES ON THE GLUTAMIC ACID FERMENTATION. II. COMPOSITION OF THE CULTURE MEDIUM. 2. ON THE SOURCE OF NITROGEN**  
 [1942] 5p. (tables omitted) 5 refs. 68-16191  
 Order from S.A. \$1.10

Trans. of [Shikho Kagaku Zasshi (Japan) 1942, v. 47, no. 8, p. 301-304].

**DESCRIPTORS:** \*Glutamic acid, \*Fermentation, Bacteria, \*Microorganisms, Nitrogen, \*Culture media, Microbiology.

As a result of the examination of the application of several kinds of nitrogen sources for bacteria No. 1942 it was recognized that urea,  $(\text{NH}_4)_2\text{NO}_3$  and  $\text{NH}_4\text{Cl}$  are good. Mixtures of urea and  $(\text{NH}_4)_2\text{NO}_3$  or  $\text{NH}_4\text{Cl}$  were used as the nitrogen sources which might kill the (biological Sciences--Microbiology. T.T. v. 10, no. 11) (over)

68-16191

- I. Title: 1942 Bacteria
2. Title: Bacteria 1942
- I. Chen, Chia-tung
- II. Tu, Tung-ming
- III. Title: Composition ...
- IV. Title: On ...

A254922

Office of Technical Services

[Chen, Chih-tsung, Shen, Wen-kwei, and  
Chen, Hwan-feng].  
[STUDIES ON THE GLUTAMIC ACID FERMENTA-  
TION]. X. ON Kd (OXYGEN ABSORPTION RATE  
CONSTANT). [1963] 6p. (figs. tables omitted) 14 refs.  
Order from SLA \$1.10 63-16198

Trans. of [Hakko Kagaku Zasshi (Japan) 1959, v. 57,  
no. 8, p. 318-321].

DESCRIPTORS: \*Glutamic acid, \*Fermentation,  
Biosynthesis, \*Culture media, \*Oxygen consumption,  
Bacteria, Absorption (Biology), \*Micrococci.

As a result of a test conducted for the determination of  
the relationship between Kd and the amount of the pro-  
duction of glutamic acid by bacteria No. 1942, by  
changing Kd through a change in the solution in an agi-  
tation culture using a triangular flask of a capacity of  
(Biological Sciences--Microbiology, TT. v. 10, no. 11)  
(over)

63-16198

1. Title: 1942 Bacteria
2. Title: Bacteria No. 1942
- I. Chen, Chih-tsung
- II. Shen, Wen-kwei
- III. Chen, Hwan-feng
- IV. Title: On ...

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Office of Technical Services

[Chen, Chih-tsung and Shen, Wen-kwei].  
 STUDIES ON THE GLUTAMIC ACID FERMENTATION. VI. ON THE PRE-CULTURE AND THE AMOUNT OF INJECTION [1963] 8p. (with continued).  
 63-16193  
 Order from SLA \$1.10

Trans. of [Hakko Kagaku Zasshi (Japan)] 1959, v. 37, no. 3, p. 311-313.

DESCRIPTORS: \*Glutamic acid, \*Fermentation, \*Microcococcus, \*Culture media, \*Injection, \*Microcococcus, \*Bacteria.

As a result of a test conducted by using a culture solution consisting of glucose 2.0, urea 0.2,  $\text{CaCl}_2$  0.2,  $\text{KH}_2\text{PO}_4$  0.2,  $\text{MgSO}_4$  7aq. 0.04 and  $\text{FeSO}_4$  0.01 per cent as the basic culture ground for the pre-culture and adding FCH or blank as the promoter substance, it was observed that 4 per cent of FCH or (Biological Sciences--Microbiology. TT, v. 10, no. 11). (over)

63-16193

1. Title: 1961 Bacteria
2. Title: Bacteria No. 1962
1. Chen, Chih-tsung
2. Shen, Wen-kwei
3. Title: On ...

A-54925

Office of Technical Services

[Chen, Chih-tsung and Shan, Wan-lwei].  
 (STUDIES ON THE GLUTAMIC ACID FERMENTATION). IV. COMPOSITION OF THE CULTURE GROUND. 3. ON THE PROMOTOR SUBSTANCES.  
 [1963] 5p. (tables omitted) 4 refs.  
 Order from SLA \$1.10

63-16192

Trans. of [Heikyo Kagaku Zasshi (Japan) 1969, v. 37,  
 no. 8, p. 304-307.

DESCRIPTORS: \*Glutamic acid, \*Fermentation,  
 Monosynthesis, \*Culture media, Bacteria, Micrococci,  
 Proteins.

Examinations were made concerning the promoter effects of the hydrochloric acid decomposed solutions of the blan cake, peanut cake and casaka on the production of glutamic acid by bacteria No. 1942. As a result of these examinations, it was found that the decomposed solution of peanut cake (PCH) is the best. The most (Biological Sciences--Microbiology, TT, v. 10, no. 11)  
 (over)

63-16192

1. Title: 1942 Bacteria
2. Title: Bacteria no. 1942
1. Chen, Chih-tsung
2. Shan, Wan-lwei
- III. Title: Composition ...
- IV. Title: On ...

A254923

Office of Technical Services

[Chen, Chih-tsung and Huang, Tung-fu].  
[STUDIES ON THE GLUTAMIC ACID FERMENTA-  
TION]. XI. ISOLATION OF GLUTAMIC ACID IN  
FERMENTATION SOLUTION, 1. [1963] 7p. (tables  
omitted) 3 refs.  
Order from SLA \$1.10

63-16199

Trans. of [Hakko Kagaku Zasshi (Japan) 1959, v. 37,  
no. 2, p. 322-324].

DESCRIPTOR: \*Glutamic acid, \*Fermentation,  
Separation, \*Culture media, Biosynthesis, Bacteria,  
\*Micrococci, Chlorides, Chemical precipitation.

As for the methods for the separation of glutamic acid  
from the fermentation solution, tests were carried out  
on the method of educing glutamic acid from a concen-  
trated broth at its isoelectric point and on the method  
for separating glutamic acid in the form of a hydro-  
(Biological Sciences--Microbiology, TT, v. 10, no. 11)  
(over)

63-16199

I. Chen, Chih-tsung  
II. Huang, Tung-fu  
III. Title: Isolation ...

4254929

Office of Technical Services



[Chen, Chih-tsung and Huang, Tsung-fu].  
 [STUDIES ON THE GLUTAMIC ACID FERMENTA-  
 TION]. XII. [ISOLATION OF GLUTAMIC ACID IN  
 THE FERMENTATION SOLUTION. 2. [1968] 7p.  
 (Sign. tables omitted) 12 refs.  
 Order from S.L.A. \$1.10

68-16200

Trans. of [Hokkai Kagaku Zasshi (Japan) 1969, v. 37,  
 no. 3, p. 324-327].

DESCRIPTORS: \*Glutamic acid, \*Fermentation,  
 \*Culture media, Separation, Bacteria, \*Micrococci,  
 Electrodialysis.

The result of a test which was conducted on the con-  
 centration of the glutamic acid fermentation solution  
 by the electrolytic dialysis is given. By using an  
 electrolytic cell using the positive ion exchange films  
 and the negative ion exchange films alternately as  
 (Biological Sciences--Microbiology, TT, v. 10, no. 11)  
 (over)

68-16200

I. Chen, Chih-tsung  
 II. Huang, Tsung-fu  
 III. Title: Isolation ...

A254930

Office of Technical Services

[Chen, Chih-tsung and Chen, Hwan-feng].  
[STUDIES ON THE GLUTAMIC ACID-FERMENTATION]. VIII. ON THE METHOD FOR THE PRESERVATION OF BACTERIA. [1963] 5p. (tables omitted)  
1 ref.

Order from SLA \$1.10

63-16196

Trans. of [Hakko Kogaku Zasshi (Japan) 1959, v. 37,  
no. 8, p. 314-315.

DESCRIPTORS! \*Glutamic acid, \*Fermentation,  
\*Culture media, Bacteria, Preservation, \*Micrococcus,  
Biosynthesis,

As for the isinglass slant cultures for the preservation  
of bacteria, those with an addition of 1.0 per cent of  
meat extract, 10 per cent of peptone, and 0.5 per cent  
of NaCl or those with the same additions plus an  
addition of 0.25 per cent of glucose are proper. Inas-  
(Biological Sciences--Microbiology, TT, v. 10, no. 11)  
(over)

63-16196

1. Title: 1942 Bacteria
2. Title: Bacteria no. 1942
1. Chen, Chih-tsung
- II. Chen, Hwan-feng
- III. Title: On ...

A254926

Office of Technical Services

[Chen, Chih-tsung and Chen, Hwan-fang].  
[STUDIES ON THE GLUTAMIC ACID FERMENTATION]. V. COMPOSITION OF THE CULTURE GROUND. 4. ON THE PROMOTOR SUBSTANCES.  
[1963] 5p. (tables omitted) 4 refs.  
Order from SLA \$1.10

63-16193

Trans. of [Hakko Kagaku Zasshi (Japan) 1959, v. 37, no. 8, p. 307-309].

DESCRIPTORS: \*Glutamic acid, \*Fermentation, \*Culture media, Stimulation, Biosynthesis, \*Micrococcus Bacteria, Vitamin B complex.

The promoter effects of biotin in the production of glutamic acid are conspicuous. The most suitable concentration of biotin is in the range between 2 and 3 (gamma) per liter. The use of PCH alongside shows no particular difference from the use of biotin and PCH (Biological Sciences--Microbiology, TT, v. 10, no. 11) (over)

63-16193

1. Title: 1912 Bacteria
2. Title: Bacteria No. 1942
- I. Chen, Chih-tsung
- II. Chen, Hwan-fang
- III. Title: Composition ...
- IV. Title: On ...

A254924

Office of Technical Services

77  
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Problem of its Standardization in View of the Second  
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Ch'en Ch'iu-te'ai & Chiang Ch'ing-shan, 5 PP.  
CHINESE, per, Shantung. Pathology. Vol. 1,  
No 1, Mar 1964.  
JPRS 43072

*Chen Chiu-te ai*

Set/BAH  
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PP 31-35.

JPRS 17561

FE - CHINA

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63  
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Simple Baroclinic Atmosphere, by Chen Chu-shih,

50 p.

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No 12, 1963, pp 51-63, 155-162. 9638748

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Emmanuel College - Etat 65-22

CFSTI TT-65-64342

Chen Chu-shih

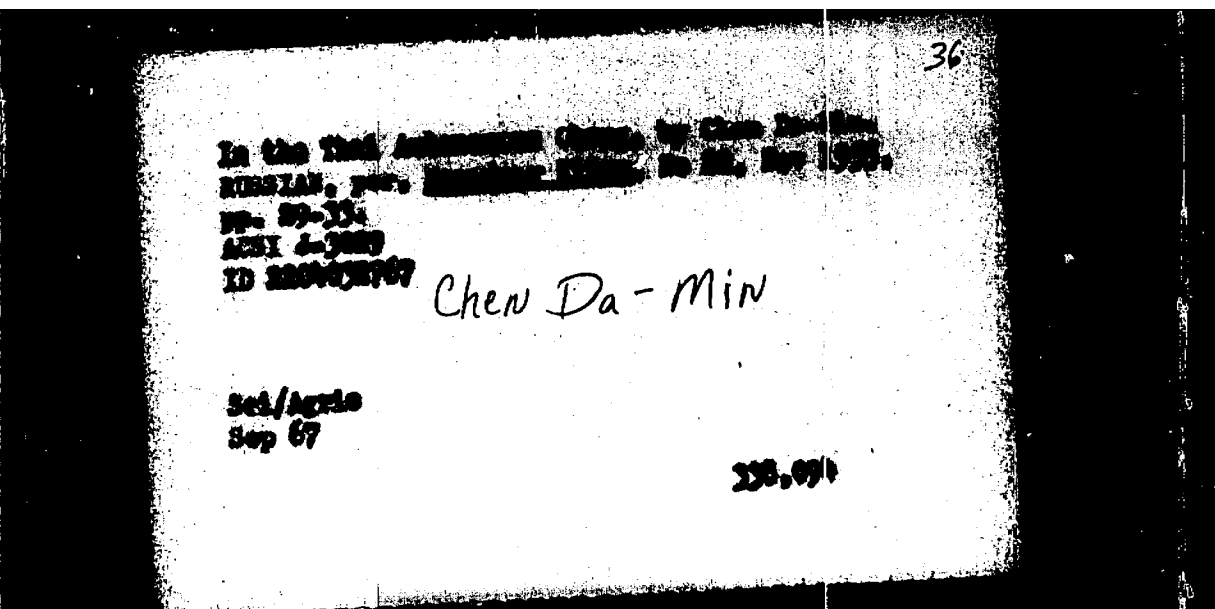
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35  
Convective Instability of Inertia Waves and  
Physical Analysis of the Formation of Typhoons in  
the Early Stage, by Chen Chu-shih.  
CHINESE, per. Ch'i-hsiang Hsueh-pao (Acta Meteor-  
ologica Sinica). Vol 34, No 4, 1964, pp 433-442.  
\*AFRL

Chen Chu-shih

Sci-Atlas Sci  
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82  
Character of Energy Exchange Between Sea and  
Atmosphere of North Pacific, by Ch'en En-Chiu,  
Chang P'ei-yuan, 19 pp.  
CHINESE, per. Hsi-sheng Tsai, Peking, Vol 6,  
No 4, Nov 1964, pp 350-353.  
JPRS 50675

Ch'en EN-Chiu

Sci-Bar Sci  
June 70

Problems in the Vibration Theory of Circular  
Double Suspension-Cable Structures, by  
Fu-Hsiang Ch'en, Ping-wu Ch'en, et al. 12 pp.  
CHINESE, per, Ho-eh-pin Chien Chu Kung Ch'eng  
Hsueh Yuen Hsueh Pao, No 4, 1964, pp 17-22.  
AIR/PTD/AT-23-47-68

*Fu-Hsiang Ch'en*

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CHINESE, per, Hua-hsueh T'ung-pao, No 8, 1964,  
pp 44-47.

JPRS 27658

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(DC-5906)

Commerce Workers Should Possess the Mass  
Viewpoint and the Work Spirit of Intensive In-  
vestigation, by EHM Ch'en Hsing, 15 pp.

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pp 3-5.

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Asia - China  
Pol  
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Sand, by Chen-Hsing Liu.  
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Vol 31, No 1, 1960, pp 75-91.  
CSIRO/No. 7240

Chen-Hsing Liu

Sci 67 (Jul)

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72  
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turbances in a Baroclinic Atmosphere, by  
Chen Yung-san (Ch'ên Hsiung-shan).  
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No 1, Feb 1964, pp 20-30.  
\*AFCL

HSIUNG-SHAN  
CHEN Yung-SAN

Sci-Atmos  
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91  
A Historical Department of the Central Cir-  
culation of the Republic, by Ch'en Hsiung-  
shan (Ying Tiao Hsueh), 32 pp.  
CHUNGKING, gov. CHINA, 1954-1955. Vol. XXIV,  
No. 4, Nov 1954, pp. 43-50  
JSTW 38737

Ch'en Hsiung-shan

FE-China  
Oct-55/A  
Nov 65

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On the Special Characteristics of Statistics and  
the Relationship Between Statistics and In-  
vestigation and Research, by Chu Yuan,  
Ch'en Hsuan-hua, 9 pp.

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pp 51-56.

JPRS 16033

FR - China  
Econ  
Nov 62

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No 11, 1961, pp 727-734.  
FTB-TX-44-1130

*Chen Hua-Lin*  
Sci - Phys  
Aug 65

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*K. Cheng*  
sci/aeronautics  
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24  
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Lake, by Chen K'o-tsun & Wang Ti-chen, 37 pp.  
CHINESE, par. Hsiao Kung-shan, Vol 30, No 1,  
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JPRS 33311

Chen K'o-Tsun

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891,429

(DC-3992)

A Poor Mountain Region Becomes an Excellent Hog  
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FE - China

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The Effect of Vibration on Heat Transfer  
between Liquid Flowing Inside and Outside a  
Tube, by Chen Chao-shan.  
CHINESE, ser. Shi Ji Hsueh Pao, Vol 22, No 4,  
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\*FTI-FT-63-1766

*Chen, Li Hsueh*

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Nov 65

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Over Eastern Asia. (1) THE Budget of Solar:  
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CHINESE, per. Ch'i-tsiang Hsueh-Pao, Vol XXIV,  
No 2, 1964, pp 146-161. 100004766  
AFCHL Enr 65-34

*Chen Lung-Shun*

Sci-  
Sept 66

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24  
A Preliminary Analysis of the Agro-Ulimate of  
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Chen Hsing-Tung, 32 pp.  
CHINESE, FOR, 21-11-1964-1965, Vol XI, No 3,  
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JPRS 1961

FE - China  
Born  
Dec 65

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62  
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3731). 6 pp.  
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JPRS 37982

Ch'en Mou-yu

FE-China  
661-83/C  
Oct 66

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*Ch'en Piao*  
Peculiar Radiation and Corpuscle Streams  
of the Sun, by Ch'en Piao, 17 pp.  
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Sep 71

*Chen Piao*

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JPRS 53782

Sep 71

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AIR/FTD/AT-23-67-68

*Ping-wu Ch'en*

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mar 69

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JPRS 29429

Anti-China  
Sci-Tech  
Apr 65

277,573

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High Temperatures, by Shao-li Ch'en.  
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\*TTD-HT-23-294-68C

Sci-Chem  
Apr 68

*Shao-li Ch'en*

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CHUANG-shu, pp. 1-2. Hsueh Tung Shu, No 4, 1964.  
pp 874-875.  
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Ch'en Shao-shu

Sci-Phys  
Aug 65

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Perturbation Theory of the Transverse Transport  
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Chen Shi-king.  
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\*AFCEL

CHEN Shi-King

Sci-Phys  
Oct 68



65  
A Special Analysis of Hemispherical Flow  
During a Large Scale Synoptic Variation,  
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Sci-ES&A  
Jun 65

56  
A Spectral Analysis of Northern-Hemisphere Flow  
During a Large-Scale Synoptic Variation, by  
Chen Shou-jin, 26 pp.  
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FTD-TT-65-606

*Chen Shou-jin*

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Sep 66

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40  
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